

Appendix E

Sensitive Plant, Wildlife, and Fish Species Potentially Present Red Rim Project Area.¹

Plant Species				
Common Name	Scientific Name	Sensitivity Status ²	Habitat	Occurrence Potential ³
Laramie columbine	<i>Aquilegia laramiensis</i>	G2/S2, FSR2	Crevices of granite boulders and cliffs, 6,400-8,000'	unlikely
Nelson's milkvetch	<i>Astragalus nelsonianus</i>	G2/S2 CO	Alkaline clay flats, shale bluffs and gullies, pebbly slopes, and volcanic cinders in sparsely vegetated sagebrush, juniper, and cushion plant communities at 5,200-7,600'	possible
Cedar Rim thistle	<i>Cirsium aridum</i>	G2Q/S2	Barren, chalky hills, gravelly slopes and fine textured, sandy-shaley draws 6,700-7.200'	possible
Weber's scarlet gilia	<i>Ipomopsis aggregata ssp. weberi</i>	G5T1T2Q/S1,FSR2	Openings in coniferous forests and scrub oak woodlands 8,500-9,600'	unlikely
Gibbens' beardtongue	<i>Penstemon gibbensii</i>	G1, S1, BLM	Sandy or shaley (often Green River Shale) bluffs and slopes, 5,500-7,500 ft. Associated vegetation: <i>Juniperus</i> spp., <i>Cirsium</i> spp., <i>Eriogonum</i> spp., <i>Elymus</i> spp., <i>Amelanchier alnifolia</i> , <i>Chrysothamnus</i> spp., <i>Thermopsis</i> spp., <i>Arenaria</i> spp., and <i>Astragalus</i> spp.	possible
Persistent sepal yellowcress	<i>Rorippa calycina</i>	G3/S2S3	Riverbanks and shorelines, usually on sand soils near high water line	unlikely
Laramie false sagebrush	<i>Sphaeromeria simplex</i>	G2/S2	Cushion plant communities on rocky limestone ridges and gentle slopes 7,500 - 8600'	unlikely
Wildlife Species				
Common Name	Scientific Name	Sensitivity Status ²	Occurrence Potential ³	
Mammals				
Dwarf shrew	<i>Sorex nanus</i>	G4/S253,R2,NS53	Likely	
Wyoming pocket gopher	<i>Thomomys clusius</i>	R2, G2/S1S2, NSS4	Likely	
White-tailed prairie dog	<i>Cynomys leucurus</i>	G4/S2S3, NSS7	Present	
Swift fox	<i>Vulpes velox</i>	R2, G2/S2S3, NSS3	Likely	
Fringed myotis	<i>Myotis thysanodes</i>	R2, G5/S1B, S1N, NSS2	Possible	
Long-eared myotis	<i>Myotis evotis</i>	G5/S1B, S1?N, NSS2	Possible	
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	R2/R4, G4/S1B, S2N, NSS2	Possible	
Birds				
Baird's sparrow	<i>Ammodramus bairdii</i>	G4/S1B, SZN, R2, NSS4	Unlikely	
Sage sparrow	<i>Amphispiza belli</i>	G5/S3B, SZN	Present	
Brewer's sparrow	<i>Spizella breweri</i>	G5/S3B, SZN	Present	
Long-billed curlew	<i>Numenius americanus</i>	G5/S3B, SZNR2, NSS3	Unlikely	

Sage thrasher	<i>Oreoscoptes montanus</i>	G5/S3B, SZN	Present
Mountain Plover	<i>Charadrius montanus</i>	G2/S2B, SZN	Possible
Western burrowing owl	<i>Athene cunicularia</i>	R2, G4/S3B, SZN, NSS4	Present
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	G5/S2B, SZN, R2, NSS2	Unlikely
Loggerhead shrike	<i>Lanius ludovicianus</i>	G5/S4B, SZN, R2	Present
Columbian sharp-tailed grouse	<i>Tympanuchus phasianellus columbianus</i>	R2/R4, G4T3/S1	Possible
Greater sage-grouse	<i>Centrocercus urophasianus</i>	G5/S3	Present
White-faced ibis	<i>Plegadis chihi</i>	G5/S1B, SZN, R2, NSS3	Unlikely
Trumpeter swan	<i>Cygnus buccinator</i>	R2/R4, G4/S1B, S2N, NSS2	Unlikely
Peregrine falcon	<i>Falco peregrinus</i>	G4/T3/S1B, S2N, R2, NSS3	Possible
Ferruginous hawk	<i>Buteo regalis</i>	R2, G5/S23B, S4N, NSS3	Present
Northern goshawk	<i>Accipiter gentilis</i>	R2/R4, G5/S23B, S4N, NSS4	Present
Amphibians			
Boreal toad	<i>Bufo boreas boreas</i>	G4T4/S2, R2, R4, NSS1	Unlikely
Great Basin spadefoot toad	<i>Spea intermontanus</i>	G5/S4, NSS4	Possible
Northern leopard frog	<i>Rana pipiens</i>	G5/S3, R2, NSS4	Likely

¹ - Source: USDI-BLM (2002) and Hayden-Wing Associates (2003)

² - Definition of status:

G Global rank: Rank refers to the range-wide status of a species.

T Trinomial rank: Rank refers to the range-wide status of a subspecies or variety.

S State rank: Rank refers to the status of the taxon (species or subspecies) in Wyoming. State ranks differ from state to state.

1 Critically imperiled because of extreme rarity (often known from 5 or fewer extant occurrences or very few remaining individuals) or because some factor of a species' life history makes it vulnerable to extinction.

2 Imperiled because of rarity (often known from 6-20 occurrences) or because of factors demonstrably making a species vulnerable to extinction.

3 Rare or local throughout its range or found locally in a restricted range (usually known from 21-100 occurrences).

4 Apparently secure, although the species may be quite rare in parts of its range, especially at the periphery.

5 Demonstrably secure, although the species may be rare in parts of its range, especially at the periphery.

H Known only from historical records. 1950 is the cutoff for plants; 1970 is the cutoff date for animals.

X Believed to be extinct.

A Accidental or vagrant: A taxon that is not known to regularly breed in the state or which appears very infrequently (typically refers to birds and bats).

B Breeding rank: A state rank modifier indicating the status of a migratory species during the breeding season (used mostly for migratory birds and bats)

N Nonbreeding rank: A state rank modifier indicating the status of a migratory species during the non-breeding season (used mostly for migratory birds and bats)

ZN or ZB Taxa that are not of significant concern in Wyoming during breeding (ZB) or non-breeding (ZN) seasons. Such taxa often are not encountered in the same locations from year to year.

U Possibly in peril, but status uncertain; more information is needed.

Q Questions exist regarding the taxonomic validity of a species, subspecies, or variety.

? Questions exist regarding the assigned G, T, or S rank of a taxon.

WGFD Native Species Status Codes - Fish and Amphibians

- NSS1** - Populations are physically isolated and/or exist at extremely low densities throughout range. Habitats are declining or vulnerable. Extirpation appears possible. The Wyoming Game and Fish Commission mitigation category for Status 1 species is "Vital". The mitigation objective for this resource category is to realize "no loss of habitat function". Under these guidelines, it will be very important that the project be conducted in a manner that avoids alteration of habitat function.
- NSS2** - Populations are physically isolated and/or exist at extremely low densities throughout range. Habitat conditions appear to be stable. The Wyoming Game and Fish Commission mitigation category for Status 2 species is also "Vital". The mitigation objective for this resource category is to realize "no loss of habitat function". Under these guidelines, it will be very important that the project be conducted in a manner that avoids alteration of habitat function.
- NSS3** - Populations are widely distributed throughout its native range and appear stable. However, habitats are declining or vulnerable. The Wyoming Game and Fish Commission mitigation category for Status 3 species is "High." The mitigation objective for this resource category is to realize "no net loss of habitat function within the biological community which encompasses the project site". Under these guidelines, it will be important that the project be conducted in a manner that avoids the impact, enhances similar habitat or results in the creation of an equal amount of similarly valued fishery habitat.
- NSS4-7** - Populations are widely distributed throughout native range and are stable or expanding. Habitats are also stable. There is no special concern for these species.

WGFD Native Species Status Codes - Birds and Mammals

- NSS1** - Populations are greatly restricted or declining, extirpation appears possible. AND On-going significant loss of habitat.
- NSS2** - Populations are declining, extirpation appears possible; habitat is restricted or vulnerable but no recent or on-going significant loss; species may be sensitive to human disturbance. OR Populations are declining or restricted in numbers and/or distribution, extirpation is not imminent; ongoing significant loss of habitat.
- NSS3** - Populations are greatly restricted or declining, extirpation appears possible; habitat is not restricted, vulnerable but no loss; species is not sensitive to human disturbance. OR Populations are declining or restricted in numbers and/or distribution, extirpation is not imminent; habitat is restricted or vulnerable but no recent or on-going significant loss; species may be sensitive to human disturbance. OR Species is widely distributed; population status or trends are unknown but are suspected to be stable; on-going significant loss of habitat.
- NSS4** - Populations are declining or restricted in numbers and/or distribution, extirpation is not imminent; habitat is not restricted, vulnerable but no loss; species is not sensitive to human disturbance. OR Species is widely distributed, population status or trends are

unknown but are suspected to be stable; habitat is restricted or vulnerable but no recent or on-going significant loss; species may be sensitive to human disturbance.

NSS5 - Populations are declining or restricted in numbers and/or distribution, extirpation is not imminent; habitat is stable and not restricted. OR Species is widely distributed, population status or trends are unknown but are suspected to be stable; habitat is not restricted, vulnerable but no loss; species is not sensitive to human disturbance.

NSS6 - Species is widely distributed, population status or trends are unknown but are suspected to be stable; habitat is stable and not restricted.

NSS7 - Populations are stable or increasing and not restricted in numbers and/or distribution; habitat is stable and not restricted.

³ - Occurrence potential based upon presence of habitat and known distribution.